

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P319653

Luminaire Tested: **GAN-SA9C-730-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319653
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9C-730-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 57590 lumens
Efficiency: N/A
Efficacy: 115.0 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

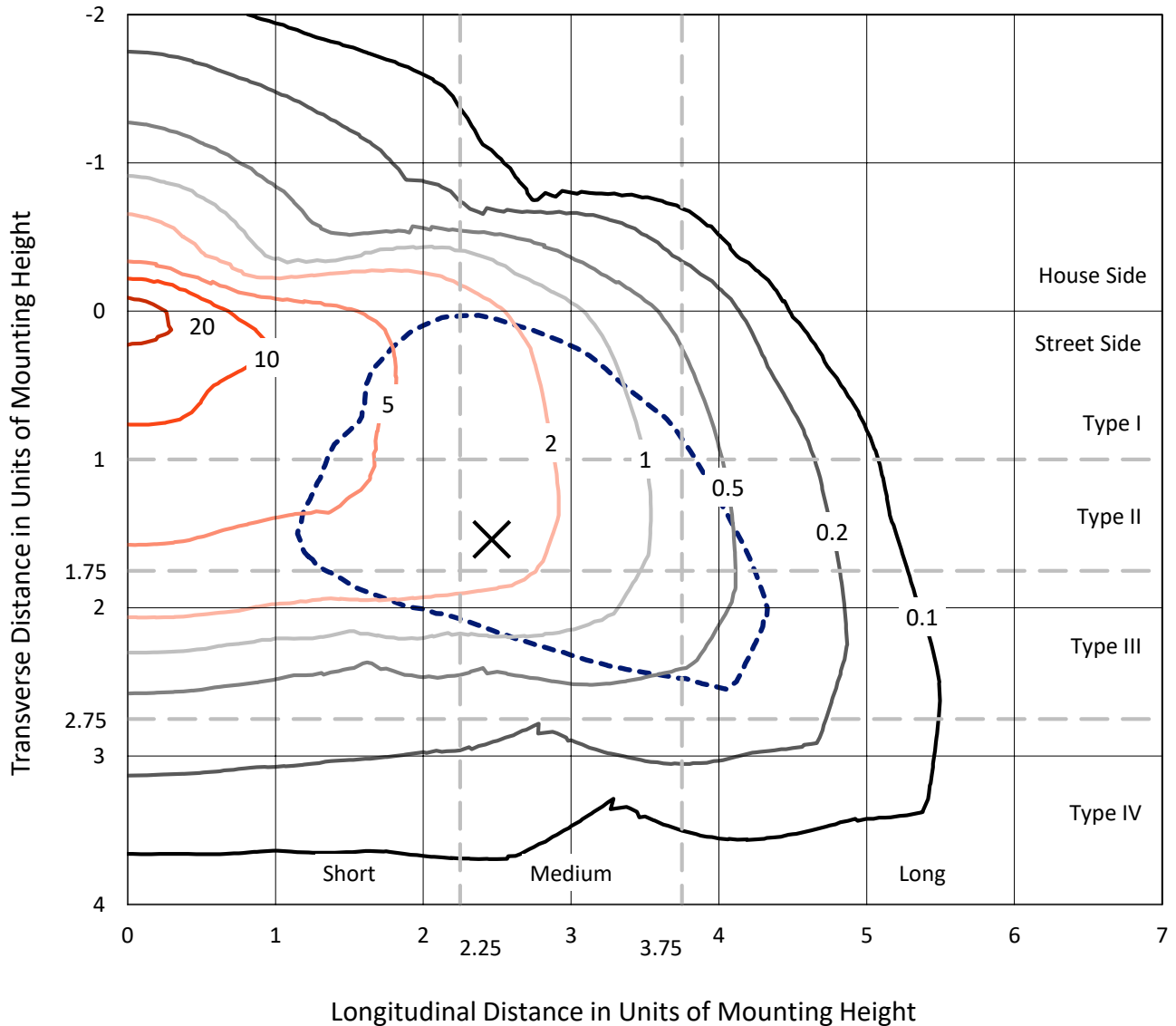
Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

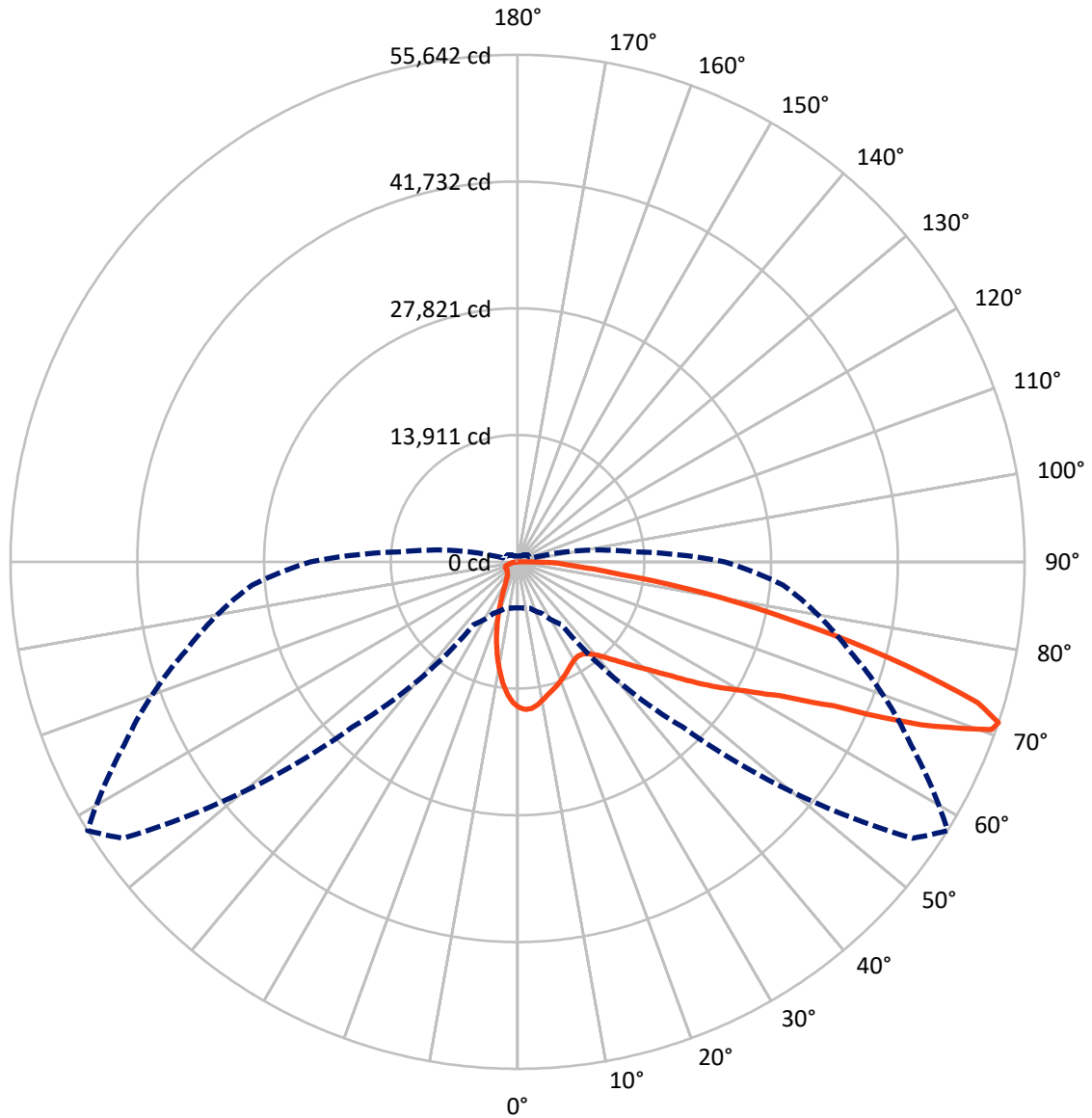
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 25.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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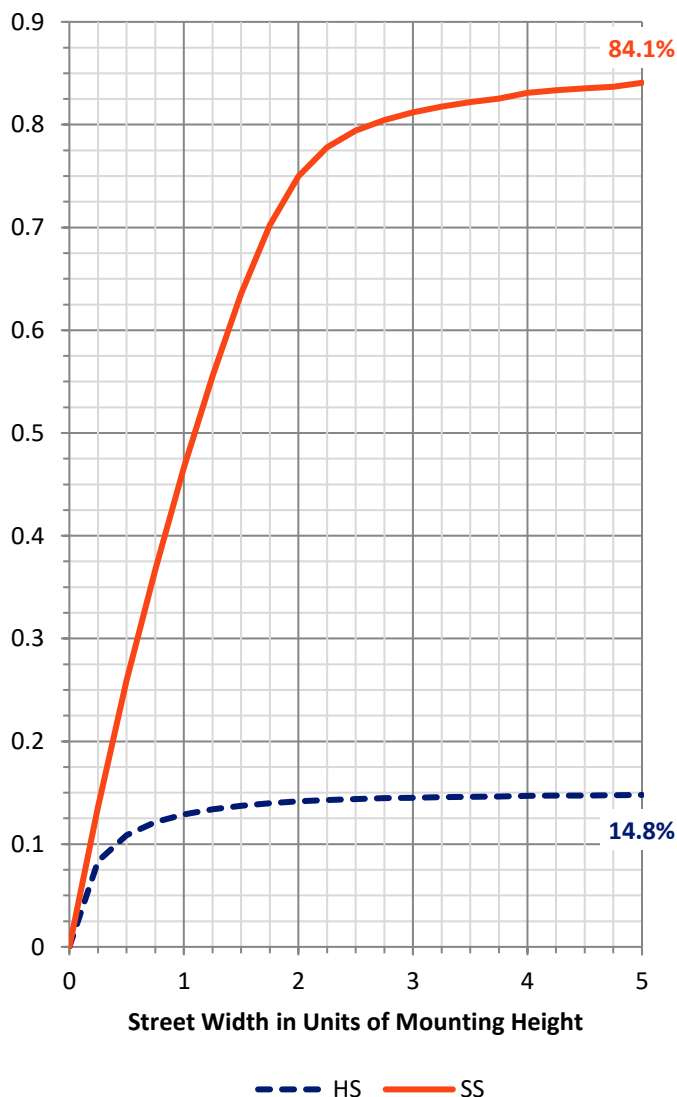
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8610.1	0.0	8610.1
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	48979.9	0.0	48979.9
	% Fixture	85.0	0.0	85.0
Total	Lumens	57590.0	0.0	57590.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1376.6	2.4
10°-20°	3060.9	5.3
20°-30°	3890.1	6.8
30°-40°	4955.2	8.6
40°-50°	7026.8	12.2
50°-60°	10874.2	18.9
60°-70°	14803.8	25.7
70°-80°	9875.8	17.1
80°-90°	1726.6	3.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	57590.0	100.0
0°-180°	57590.0	100.0

Coefficient of Utilization

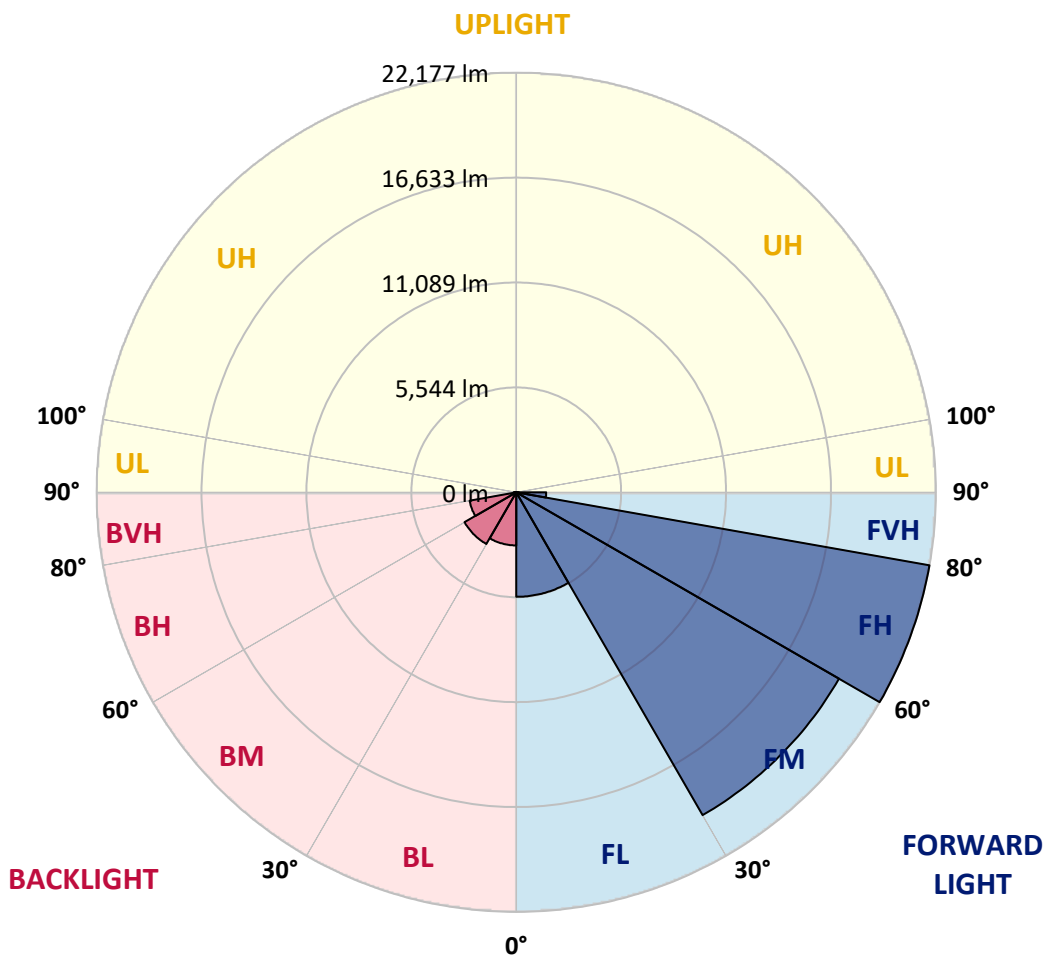


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5520.9	9.6			
FM (30°-60°)	19698.6	34.2			
FH (60°-80°)	22177.2	38.5			G5
FVH (80°-90°)	1583.2	2.7			G5
BL (0°-30°)	2806.6	4.9	B4/5000		
BM (30°-60°)	3157.6	5.5	B3/5000		
BH (60°-80°)	2502.4	4.3	B4/5000		G4/5000
BVH (80°-90°)	143.5	0.2			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	15956.3	15956.3	15956.3	15956.3	15956.3	15956.3	15956.3	15956.3	15956.3	15956.3	15956.3
2.5°	16379.6	16357.5	16365.5	16349.5	16311.4	16273.2	16217.1	16227.1	16148.9	16032.5	15888.1
5°	16070.6	16062.6	16122.8	16156.9	16185.0	16162.9	16146.9	16166.9	16052.6	15892.1	15641.3
7.5°	15422.7	15334.4	15410.6	15525.0	15633.3	15715.6	15823.9	15837.9	15765.7	15597.2	15268.2
10°	14501.9	14417.6	14530.0	14708.5	14925.2	15121.8	15340.4	15380.5	15394.6	15242.1	14842.9
12.5°	13547.0	13482.8	13595.1	13845.9	14205.0	14507.9	14857.0	14917.1	15041.5	14939.2	14449.7
15°	12692.4	12668.3	12804.7	13051.5	13464.7	13928.1	14431.7	14542.0	14752.6	14718.5	14142.8
17.5°	11954.2	11948.2	12052.5	12311.3	12768.6	13354.4	14008.4	14195.0	14507.9	14548.0	13890.0
20°	11404.5	11392.5	11464.7	11655.3	12126.7	12790.7	13551.0	13807.8	14259.1	14399.6	13629.2
22.5°	11109.6	11107.6	11109.6	11199.9	11585.1	12202.9	13105.7	13418.6	14016.4	14281.2	13340.4
25°	11059.5	11053.4	11009.3	10999.3	11217.9	11711.4	12664.3	13009.4	13785.7	14199.0	13065.5
27.5°	11189.9	11197.9	11139.7	11045.4	11089.6	11388.5	12281.2	12650.3	13601.2	14182.9	12875.0
30°	11460.7	11456.7	11406.5	11308.2	11222.0	11268.1	12008.3	12377.5	13476.8	14253.1	12744.6
32.5°	11759.6	11781.6	11771.6	11717.5	11589.1	11404.5	11926.1	12287.2	13440.7	14421.6	12688.4
35°	12118.7	12142.7	12215.0	12257.1	12106.6	11809.7	12102.6	12415.6	13545.0	14738.6	12778.7
37.5°	12459.7	12521.9	12724.5	12903.0	12774.7	12443.7	12572.0	12794.7	13868.0	15238.1	13021.4
40°	12852.9	12907.1	13238.1	13617.2	13597.1	13254.1	13328.3	13476.8	14437.7	15954.3	13460.7
42.5°	13240.1	13348.4	13827.8	14365.5	14519.9	14217.0	14335.4	14413.6	15240.1	16903.1	14227.0
45°	13755.6	13872.0	14538.0	15185.9	15547.0	15376.5	15565.1	15595.2	16249.2	18195.1	15340.4
47.5°	14536.0	14668.4	15444.7	16124.8	16676.5	16694.5	17005.5	16993.4	17509.0	19673.5	16742.7
50°	15751.7	15942.2	16578.2	17214.1	17884.1	18257.2	18672.5	18614.3	19019.5	21248.3	18357.5
52.5°	17344.5	17432.7	17904.2	18373.6	19206.1	20042.6	20638.4	20586.3	20732.7	22867.2	20191.1
55°	18995.5	19061.7	19256.3	19513.0	20632.4	21996.6	23256.4	23174.1	22803.0	24548.3	22002.6
57.5°	20480.0	20614.4	20748.8	20855.1	22068.8	24038.7	25934.5	25940.5	25049.8	26361.8	23874.2
60°	20710.7	20829.0	21717.7	22556.2	24526.2	26763.0	28801.1	28741.0	27374.8	28329.7	25960.6
62.5°	18307.4	18574.2	20058.7	22289.4	26893.4	31746.1	32458.2	32384.0	30155.2	30755.1	28389.9
65°	13119.7	13422.6	15214.0	18566.2	25745.9	37236.7	39058.2	38059.2	33946.7	33738.1	31234.5
67.5°	7568.9	7641.1	8417.5	11109.6	19603.3	37523.5	49126.6	47728.4	39834.5	37122.3	32626.7
70°	5596.9	5594.9	5779.5	6836.7	10608.1	30624.7	53915.1	55168.9	46033.3	38235.7	30658.8
71°	5061.3	5067.3	5274.0	6222.8	8401.4	25633.6	52898.1	55642.4	47666.2	37686.0	29234.5
72.5°	4329.1	4349.2	4636.0	5580.9	7067.4	17677.5	48516.8	52801.8	48440.6	36329.9	27005.7
75°	3283.9	3330.1	3727.3	4704.2	6459.5	8965.1	35607.7	42163.6	43032.2	32057.0	20066.7
77.5°	2343.1	2395.2	2844.6	3956.0	6140.6	6756.4	23846.2	30755.1	31667.8	20544.2	9051.4
80°	1480.5	1542.7	1881.7	3147.5	5769.5	6415.4	14985.3	20672.6	17268.2	6573.9	2303.0
82.5°	868.6	916.8	1167.5	2056.2	4712.3	6178.7	8816.7	11458.7	6720.3	1986.0	1047.2
85°	503.5	525.6	728.2	1310.0	3422.4	5831.6	6477.6	6405.4	2916.8	970.9	495.5
87.5°	234.7	260.8	431.3	684.1	1899.7	4226.8	5119.5	4423.4	1813.5	455.4	232.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	15956.3	15956.3	15956.3	15956.3	15956.3	15956.3	15956.3	15956.3	15956.3	15956.3	15956.3
2.5°	15817.9	15783.8	15641.3	15514.9	15382.5	15210.0	15019.4	14995.4	14879.0	14901.1	14861.0
5°	15504.9	15418.7	15075.6	14764.7	14397.6	14068.6	13711.5	13547.0	13310.3	13294.2	13234.0
7.5°	15057.6	14897.1	14365.5	13775.7	13185.9	12624.2	12068.5	11703.4	11330.3	11171.8	11157.8
10°	14554.0	14281.2	13498.8	12626.2	11775.6	10955.1	10160.7	9573.0	9043.4	8792.6	8782.6
12.5°	14076.6	13673.4	12600.1	11412.5	10249.0	9185.8	8096.5	7324.2	6660.2	6437.5	6343.2
15°	13671.4	13103.6	11725.5	10206.9	8794.6	7318.1	6078.4	5265.9	4652.1	4439.4	4399.3
17.5°	13278.2	12548.0	10828.8	8989.2	7282.0	5659.1	4417.4	3813.5	3486.5	3400.3	3398.3
20°	12887.0	11976.2	9891.9	7743.4	5819.6	4232.8	3396.3	3125.5	3015.1	3005.1	2989.0
22.5°	12443.7	11370.4	8907.0	6493.6	4541.7	3328.1	2886.7	2778.4	2764.4	2800.5	2800.5
25°	12028.4	10768.6	7907.9	5269.9	3532.7	2776.4	2577.8	2555.7	2593.8	2658.0	2664.1
27.5°	11641.2	10188.8	6933.0	4182.7	2830.6	2445.4	2363.2	2389.2	2457.4	2531.7	2533.7
30°	11322.3	9641.2	5986.1	3296.0	2391.2	2198.7	2184.6	2236.8	2311.0	2369.2	2383.2
32.5°	11075.5	9173.8	5071.3	2650.0	2104.4	2014.1	2026.1	2070.3	2116.4	2148.5	2170.6
35°	10961.2	8772.5	4226.8	2234.8	1921.8	1871.7	1887.7	1911.8	1931.8	1955.9	1974.0
37.5°	10981.2	8461.6	3472.5	1976.0	1799.4	1773.4	1773.4	1773.4	1773.4	1785.4	1787.4
40°	11167.8	8283.1	2858.6	1811.5	1717.2	1689.1	1667.0	1647.0	1630.9	1639.0	1634.9
42.5°	11645.2	8267.0	2409.3	1707.2	1651.0	1604.9	1560.7	1532.6	1512.6	1520.6	1524.6
45°	12455.7	8467.6	2106.4	1632.9	1588.8	1518.6	1462.4	1432.3	1418.3	1444.4	1448.4
47.5°	13504.9	8904.9	1921.8	1578.8	1530.6	1438.4	1378.2	1350.1	1354.1	1392.2	1402.2
50°	14857.0	9615.1	1833.5	1544.7	1490.5	1370.1	1308.0	1283.9	1295.9	1350.1	1362.1
52.5°	16341.4	10638.2	1843.6	1534.6	1464.4	1320.0	1253.8	1225.7	1245.8	1295.9	1306.0
55°	18054.6	11867.9	2010.1	1548.7	1426.3	1287.9	1209.7	1161.5	1177.6	1223.7	1231.7
57.5°	19958.4	13276.2	2345.1	1544.7	1378.2	1257.8	1163.5	1091.3	1103.3	1131.4	1139.4
60°	21940.4	14977.3	2864.7	1556.7	1356.1	1221.7	1101.3	1011.1	1007.0	1031.1	1035.1
62.5°	24319.6	16945.3	3458.5	1564.7	1370.1	1175.6	1019.1	930.8	918.8	924.8	928.8
65°	26771.0	18369.6	3235.8	1532.6	1414.3	1137.4	946.9	852.6	830.5	826.5	828.5
67.5°	26847.2	16843.0	2268.9	1468.4	1432.3	1117.4	892.7	786.4	750.3	736.2	734.2
70°	24076.9	13683.4	1767.3	1400.2	1360.1	1085.3	842.5	732.2	678.1	656.0	654.0
71°	22724.8	12596.1	1675.1	1366.1	1306.0	1053.2	820.5	708.1	652.0	627.9	623.9
72.5°	20604.3	11292.2	1562.7	1312.0	1201.6	970.9	778.4	674.0	615.9	587.8	581.8
75°	14786.7	7384.3	1342.1	1169.5	995.0	774.3	682.1	605.8	555.7	521.6	517.6
77.5°	5697.2	2938.9	1015.1	972.9	762.3	605.8	561.7	523.6	487.5	453.4	451.4
80°	1761.3	1314.0	740.2	732.2	551.7	451.4	437.3	427.3	413.3	377.1	369.1
82.5°	940.8	754.3	509.5	473.4	361.1	300.9	317.0	321.0	323.0	284.9	280.8
85°	449.4	399.2	286.9	268.8	210.6	168.5	194.6	210.6	212.6	174.5	162.5
87.5°	214.6	208.6	134.4	102.3	78.2	56.2	68.2	84.3	92.3	66.2	58.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)